

Session overview 1. Context setting (20 minutes) 2. Questions (5 minutes) 3. Interactive workshop (50 minutes) 4. Wrap-up (10 minutes)

Context



- 1. Peak demand is increasing while energy through the network is falling
- 2. Minimum demand on the network is now occurring around midday

3. The peak has moved to early evening and is increasingly short duration

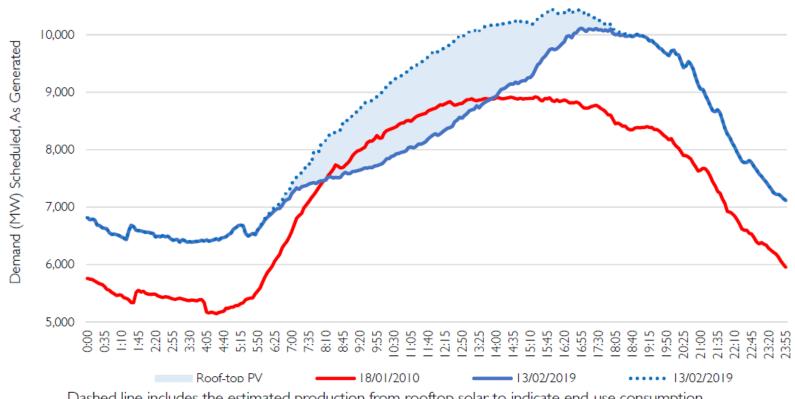
Potential for increased costs to electricity customers if no action is taken

Powerlink is keen to investigate alternatives to network augmentation

Maximum demand



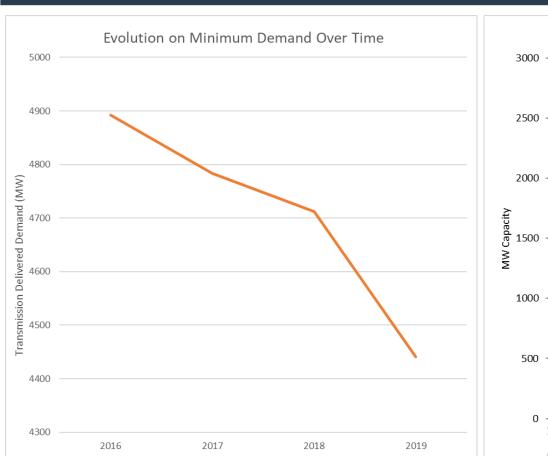


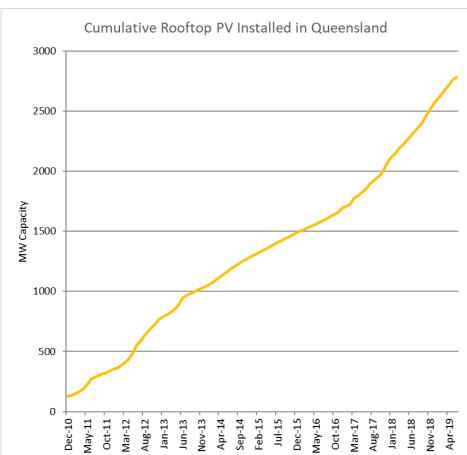


Dashed line includes the estimated production from rooftop solar to indicate end-use consumption

Minimum demand





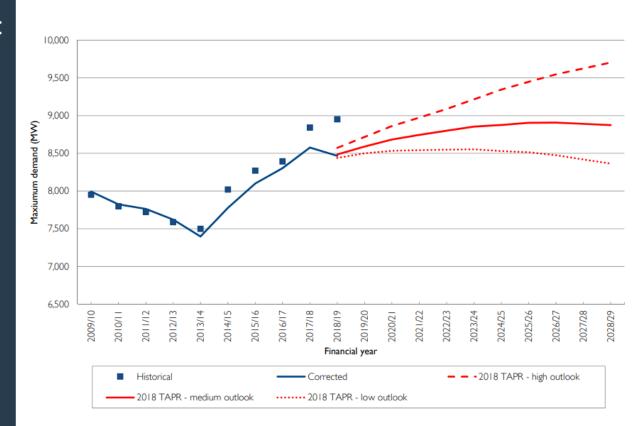


Forecast peak demand



Demand growth offset by:

- Energy efficiency
- Demand response
- Distributed batteries



Network Vision insights – over the next 30 years



- Uncertainty regarding the magnitude and geographic location of demand:
 - Potential for significant increase or contraction of demand
 - Potential for increasing concentration of demand around high-density/ industrial locations, and falling demand elsewhere (combined effect of solar, energy storage and electric vehicles)
- Potential for demand to become significantly more responsive to signals to help manage peak demand
- Consumers may opt for lower reliability from their grid connection due to the partial self-sufficiency that comes with widespread energy storage

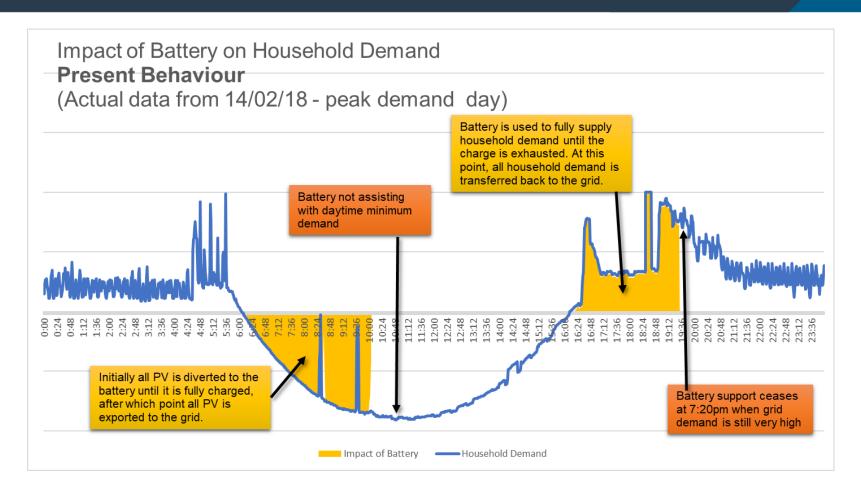
Every investment decision we make is about visioning.

What do we need to consider, what other options do we have and what do our customers expect?



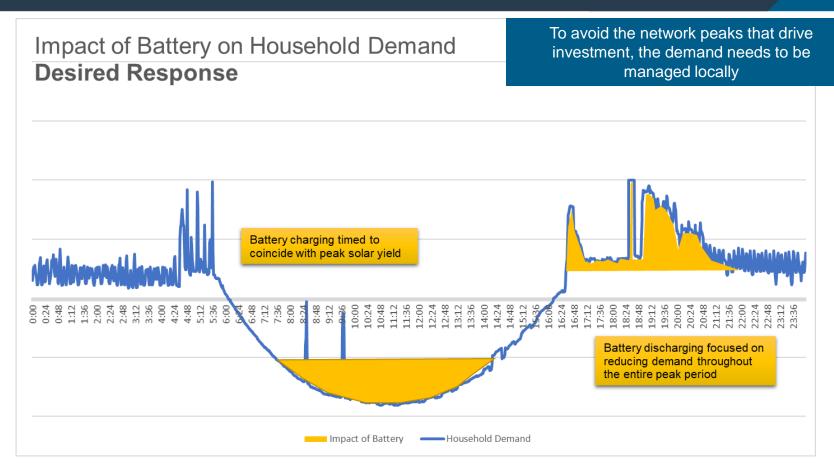
Challenges – The need for appropriate incentives





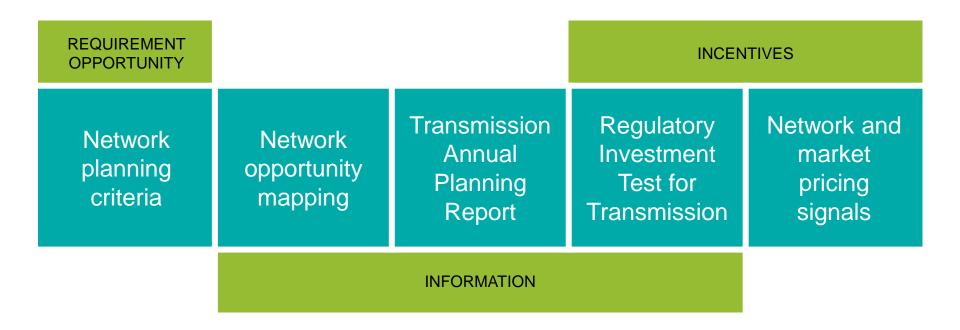
Ideal – Each premises managing its own peak





Existing mechanisms related to non-network solutions





Workshop questions

- 1. What is preventing customers from playing a more active role in dealing with network peaks?
- 2. What can Powerlink (individually, or with others) do to overcome these barriers?

